

International Application No. PCT/EP2003/012626 International Filing Date 12 November 2003 (12.11.2003) 15 November 2002 (15.11.2002) Priority Date(s) Claimed Applicant(s) (DO/EO/US) Michael HECKMEIER, et al. Title: ELECTRO-OPTICAL LIGHT MODULATION ELEMENT, ELECTRO-OPTICAL DISPLAY AND MODULATION MEDIUM INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.56, 1.97 and 1.98 Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Sir: This information disclosure statement is made in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98 as follows: Timing and Fees X Under 37 C.F.R. § 1.97(b), no fee or statement is required for filing this information disclosure statement is filed: within three months of the filing date of a national application other than a CPA under § 1.53(d); \boxtimes within three months of the actual filing date of the national phase of a PCT application; OR before the mailing of a first substantive office action (including after filing of an RCE).

specified in 37 C.F.R. § 1.97(b), but before the mailing date of:

a final rejection under 37 C.F.R. 1.113; termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P § 609(B)(2); OR a notice of allowance under 37 C.F.R. § 1.311; and

Under 37 C.F.R. § 1.97(c), this information disclosure statement is filed after the periods

		is acco	empanied by:
			the statement as specified in 37 C.F.R. § 1.97(e) set out below; OR
			a check covering the fee of \$180.00 under 37 C.F.R. § 1.17(p).
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		a final	action under 37 C.F.R. § 1.113;
		termin	ation of prosecution, e.g. Ex Parte Quayle, M.P.E.P § 609(B)(2);
		OR a r	notice of allowance under 37 C.F.R. § 1.311;
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Staten	nents Ur	nder 37	C.F.R. 1.97(e)
			Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application having a mailing date not more than three months prior to the filing date of this information disclosure statement; or
			No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned attorney after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing date of the information disclosure statement.
Cited	<u>Materia</u>	<u>ls</u>	
		ancest	s of materials listed but not attached were cited in benefit (35 U.S.C. § 120) or application Serial No, on Form 892 by the Examiner and/or Form by the applicant; see 37 C.F.R. § 1.98(d).
	\boxtimes	-	s of materials listed but not attached were cited in an international search dated March 25, 2004.
		Not re	quired by 37 CFR § 1.98.
		Copie	s of the materials listed are attached (except for the foregoing).

Non-English Language References

- An English-language search report or equivalent paper from a foreign patent office is provided indicating the relevance of the cited reference(s).
- A foreign-language search report from a foreign patent office is provided, and pertinent parts are translated substantively below:
 - X = document of particular relevance when it is taken alone
 - Y = document of particular relevance when it is combined with another such document
 - A = document defining the general state of the art
 - O = non-written disclosure
 - P = intercalated document
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 - E = patent document which has the benefit of a date earlier than the filing date and which was published only on or after this filing date
 - D = cited in the application
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 - & = publication of member of same patent family
- Translation of other relevant information on foreign search report

In the search report, "Seite" means page, "Seiten" means pages, "Verbindungen der Formel" means Figure of formula, "Beispele" means examples, and "das ganze Dokument" means the entire document, "Spalte" means column, "Zeile" means line, "Abbildungen" means claims, "Anspruch" means example, "Zusammenfassung" means summary, and "Tabelle" means table, and "Tabellen" means tables "in der Anmeldung erwaehnt" means cited in the application, "Schema" means scheme, "und" means and, "Absatz" means break, "Abildung" means figure.

Other Information

Payment of Fees Due (If Any):

	A check for \$ covering the fee identified above is attached.
	Please charge to Deposit Account No. 13-3402 \$ for the fee identified above.
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Accor	ant #13-3402 two conies of this paper are attached for this purpose

Respectfully submitted,

Anthony J. Zelano, Reg. No. 27,969

Attorney/Agent for Applicants

MILLEN, WHITE, ZELANO & BRANIGAN, P.C. Arlington Courthouse Plaza l 2200 Clarendon Blvd. Suite 1400

Arlington, Virginia 22201 Telephone: (703) 243-6333 Facsimile: (703) 243-6410

Attorney Docket No.: MERCK-3016

Date: May 16, 2005

AJZ:ssr

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Substitute	for form 1449A/PTC)		Complete if Known		
				Application Number	USNP of PCT/EP2003/012626	
INFO	RMATION	DISC	LOSURE	Filing Date	12 November 2003 (12.11.2003)	
STAT	TEMENT B	Y APF	PLICANT	First Named Inventor	Michael HECKMEIER, et al.	
				Group Art Unit	unknown	
	(use as many she	eets as ne	cessary)	Examiner Name	unknown	
Sheet 1 of 2		Attorney Docket Number	MERCK-3016			

	U.S. PATENT DOCUMENTS							
Examiner Initials *	Cite No.1	U.S. Patent Document Kind Co	1 1141110 011 41511100 011 471104111	Date of Publication of Cited Document MM-DD-YYYY				
	001	5,786,876	OTA, et al.	07-28-1998				
	002	4,818,076	HEPPKE, et al.	04-04-1989				
	003	3,795,436	BOLLER, et al.	03-05-1974				

FOREIGN PATENT DOCUMENTS								
Foreign Patent Document				ment		Date of Publication of	Pages, Columns, Lines, Where Relevant	
Examiner Initials*	Cite No.1	Office ³	Number ⁴	Kind Code ⁵ (<i>if known</i>)_	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T ^a
	004	EP	1 122 587		HITACHI LTD	08-08-2001		
	005	DE	32 44 885		MERCK PATENT GMBH	06-07-1984		
	006	wo	02 093244		HECKMEIER, ET AL.	11-21-2002		
								
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. Number refers to English language corresponding family member.

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Substitute for form 1449A/PTO Complete if Known Application Number USNP of PCT/EP2003/012626 INFORMATION DISCLOSURE 12 November 2003 (12.11.2003) Filing Date STATEMENT BY APPLICANT First Named Inventor Michael HECKMEIER, et al. unknown Group Art Unit (use as many sheets as necessary) **Examiner Name** unknown MERCK-3016 Sheet of Attorney Docket Number

71		NON PATENT LITERATURE DOCUMENTS	174,50
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		H. KIKUCHI ET AL.: "POLYMER-STABILIZED LIQUID CRYSTAL BLUE PHASES" NATURE MATERIALS, Bd. 1, 2 September 2002, pages 64-68	
		KITZEROW H-S: "THE EFFECT OF ELECTRIC FIELDS ON BLUE PHASES" MOLECULAR CRYSTALS AND LIQUID CRYSTALS, GORDON AND BREACH, LONDON, GB, BD. 202, 22 JULY 1990, PAGES 51-83	
	009	K. TARUMI, et al.: "ADVANCED LIQUID-CRYSTAL MATERIALS FOR TFT MONITOR AND TV APPLICATIONS" JOURNAL OF THE SOCIETY FOR INFORMATION DISPLAY, Bd. 10, Nr. 2, 5-7 June 2001	

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